2.0 NATURAL COMMUNITIES, EVALUATED SPECIES, AND BASELINE CONDITIONS

2.1 NATURAL COMMUNITIES EVALUATED IN THE MULTI-SPECIES CONSERVATION STRATEGY

The ERP and this MSCS have been developed to conserve natural communities and the species that depend on them. The two documents provide the information needed for a programmatic NCCP for 20 natural communities—18 habitats and two ecologically based fish groups. When the term "NCCP communities" appears in the MSCS, it refers to both habitats and fish groups. "NCCP habitat" refers to one of the 18 habitats identified below.

2.1.1 NCCP HABITATS

The 18 NCCP habitats are broad categories. Each includes several habitat or vegetation types recognized in frequently used classification systems. The following criteria were used to develop the list of NCCP habitats:

- level of acceptance of habitat nomenclature within the scientific community,
- consistency with existing electronically mapped habitat data,
- potential for habitat types to be affected by CALFED actions, and
- consistency with existing CALFED habitat nomenclature from the ERP.

The 18 NCCP habitats are defined such that CALFED could use existing geographic information system (GIS) data to estimate the location and size of the habitats, and could compare this information with ERP habitat restoration and enhancement targets.

CALFED consulted the following sources, which describe methods used to classify habitats, when it developed the habitat classification for the MSCS:

- Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979),
- Classification for California's Inland Waters (Moyle and Ellison 1991),

- Preliminary Descriptions of Terrestrial Natural Communities of California (Holland 1986),
- The California Wildlife Habitat Relationship System (Mayer and Laudenslayer 1988),
- A Manual of California Vegetation (Sawyer and Keeler-Wolf 1995),
- Ecosystem Restoration Program Plan (CALFED Bay-Delta Program 1999b), and
- Development of Key Ecological Attributes for the San Francisco Bay-Delta Watershed (CALFED Ecosystem Restoration Indicators Group, n.d.).

The MSCS technical report "Correlation of NCCP Habitats with Other Classification Systems" explains the NCCP habitats and commonly used habitat classification systems. The following are the 18 NCCP habitats evaluated in the MSCS:

Tidal Perennial Aquatic. Tidal perennial aquatic habitat is defined as deepwater aquatic (greater than 3 meters deep from mean low low tide), shallow aquatic (less than or equal to 3 meters deep from mean low low tide), and unvegetated intertidal (i.e., tideflats) zones of estuarine bays, river channels, and sloughs. Tidal perennial aquatic includes all or portions of the ERP tidal perennial aquatic, tidal and Delta sloughs, and midchannel island and shoals habitat.

Valley Riverine Aquatic. Valley riverine aquatic habitat includes the water column of flowing streams and rivers in low-gradient channel reaches below an elevation of approximately 300 feet that are not tidally influenced. This includes associated shaded riverine aquatic (SRA), pool, riffle, run, and unvegetated channel substrate (including seasonally exposed channel bed) habitat features, and sloughs, backwaters, overflow channels, and flood bypasses hydrologically connected to stream and river channels. Valley riverine aquatic habitat includes portions of the ERP riparian and riverine aquatic habitat.

Montane Riverine Aquatic. Montane riverine aquatic habitat includes the water column of flowing streams and rivers above an elevation of approximately 300 feet. This includes associated SRA, pool, riffle, run, and unvegetated channel substrate (including seasonally exposed channel bed) habitat features, and sloughs, backwaters, and overflow channels hydrologically connected to stream and river channels. Montane riverine aquatic habitat includes portions of the ERP riparian and riverine aquatic habitat.

Lacustrine. Lacustrine habitat is defined as portions of permanent bodies of water that do not support emergent vegetation and that are not subject to tidal exchange, including lakes, ponds, oxbows, gravel pits, and flooded islands. Lacustrine habitat includes portions of the ERP nontidal perennial aquatic habitat.

Saline Emergent. Saline emergent habitat includes the portions of San Francisco, San Pablo, and Suisun Bays and the Delta that support emergent wetland plant species that are tolerant of saline or brackish conditions within the intertidal zone or on lands that historically were

subject to tidal exchange (i.e., diked wetlands). Saline emergent habitat includes all or portions of the ERP saline emergent wetland tidal and Delta sloughs, and midchannel islands and shoals habitats.

Tidal Freshwater Emergent. Tidal freshwater emergent habitat includes portions of the intertidal zones of the Delta that support emergent wetland plant species that are not tolerant of saline or brackish conditions. Tidal freshwater emergent habitat includes all or portions of the ERP fresh emergent wetland tidal and Delta sloughs, and midchannel islands and shoals habitats.

Nontidal Freshwater Permanent Emergent. Nontidal freshwater permanent emergent includes permanent (natural and managed) wetlands, including meadows, dominated by wetland plant species that are not tolerant of saline or brackish conditions. Nontidal freshwater permanent emergent habitat includes all or portions of the ERP fresh emergent wetland (nontidal) and nontidal perennial aquatic habitat to be restored within nontidal freshwater permanent emergent wetlands.

Natural Seasonal Wetland. Natural seasonal wetland habitat includes vernal pools and other nonmanaged seasonal wetlands with natural hydrologic conditions that are dominated by herbaceous vegetation and that annually pond surface water or maintain saturated soils at the ground surface for enough of the year to support facultative or obligate wetland plant species. Alkaline and saline seasonal wetlands that were not historically part of a tidal regime are included in natural seasonal wetlands. Natural seasonal wetland habitat includes ERP vernal pool habitat.

Managed Seasonal Wetland. Managed seasonal wetland habitat includes wetlands dominated by native or non-native herbaceous plants, excluding croplands farmed for profit (e.g., corn and rice), that land managers flood and drain during specific periods to enhance habitat values for specific wildlife species. Ditches and drains associated with managed seasonal wetlands are included in this habitat type. Managed seasonal wetland habitat includes the ERP seasonal wetlands habitat.

Valley/Foothill Riparian. Valley/foothill riparian habitat includes all successional stages of woody vegetation, commonly dominated by willow, Fremont cottonwood, valley oak, or sycamore, within the active and historical floodplains of low-gradient reaches of streams and rivers generally below an elevation of 300 feet. Valley/foothill riparian habitat includes portions of the ERP riparian and riverine aquatic habitat.

Montane Riparian. Montane riparian habitat includes all successional stages of woody vegetation, such as willow, black cottonwood, white alder, birch, and dogwood, within the active floodplains of moderate-to-high-gradient reaches of streams and rivers generally above an elevation of 300 feet. Montane riparian habitat includes portions of the ERP riparian and riverine aquatic habitat.

Grassland. Grassland habitat includes upland vegetation communities dominated by introduced and native annual and perennial grasses and forbs, including nonirrigated and irrigated pasturelands. Grassland habitat includes all the ERP perennial grassland habitat and the much more extensive annual grassland vegetation that is not addressed in the ERP.

Inland Dune Scrub. Inland dune scrub habitat comprises vegetated stabilized sand dunes associated with river and estuarine systems. Inland dune scrub includes all the ERP inland dune scrub habitat.

Upland Scrub. Upland scrub habitat includes habitat areas dominated by shrubs characteristic of coastal scrub, chaparral, and saltbush scrub communities. Upland scrub is not included in the ERP.

Valley/Foothill Woodland and Forest. Valley/foothill woodland and forest habitat includes nonriparian forest, woodland, and savanna of valleys and foothills. These vegetation communities are commonly dominated by valley oak, blue oak, interior live oak, coast live oak, and foothill pine. Valley/foothill woodland and forest habitat is not included in the ERP.

Montane Woodland and Forest. Montane woodland and forest habitat includes nonriparian forest and woodland above the foothills. These vegetation communities are commonly dominated by pine, fir, cedar, and black oak. Montane woodland and forest habitat is not included in the ERP.

Upland Cropland. Upland cropland habitat includes agricultural lands farmed for grain field, truck, and other crops for profit that are not seasonally flooded. Upland cropland is included in the ERP as agricultural lands.

Seasonally Flooded Agricultural Land. Seasonally flooded agricultural land habitat includes agricultural lands farmed for grain, rice, field, truck, and other crops for profit that require seasonal flooding for at least 1 week at a time as a management practice (e.g., for pest control and irrigation) or are purposely flooded seasonally to enhance habitat values for specific wildlife species (e.g., ducks for duck clubs). Agricultural ditches and drains associated with maintaining seasonally flooded agricultural land are included in this habitat type. Seasonally flooded agricultural land is included in the ERP as agricultural lands.

2.2 NCCP FISH GROUPS

The MSCS evaluates two fish groups, anadromous and estuarine species. Table 2-1 identifies the species included in each group and the NCCP habitats with which they are associated. Nonestuarine NCCP aquatic habitats that some estuarine fish species use during some periods are included in this evaluation. These fish groups are addressed separately from NCCP habitats because they cannot be addressed adequately in an evaluation of NCCP habitats, which are based primarily on vegetation, land use, and geography.

The evaluation of NCCP fish groups addresses potential CALFED effects on the dynamic factors that support fish populations, such as water flow, depth, temperature, quality, and seasonal fluctuations in stage and flow. This evaluation also analyzes potential effects on the habitats with which these fish groups are associated. Fishes included in NCCP fish groups are those that:

- will be most affected by CALFED water storage, conveyance, and water operations actions;
- depend on the Bay-Delta ecosystem; and
- are subject to established USFWS, NMFS, and DFG recovery goals.

Table 2-1. Fish Group Species and Associated NCCP Habitats

Fish Group	Included Species	NCCP Habitat Types
Anadromous fish species	Sacramento River winter-run chinook salmon, Central Valley fall-/late-fall-run chinook salmon, Central Valley spring-run chinook salmon, Central Valley steelhead, and Central California Coast steelhead evolutionarily significant units (ESUs); green sturgeon	Tidal perennial aquatic, valley riverine aquatic, montane riverine aquatic, lacustrine, saline emergent, and tidal freshwater emergent
Estuarine fish species	Tidewater goby, delta smelt, longfin smelt, Sacramento splittail, and Sacramento perch	Tide perennial aquatic, valley riverine aquatic, lacustrine, saline emergent, and tidal freshwater emergent

2.3 SPECIES EVALUATED IN THE MULTI-SPECIES CONSERVATION STRATEGY

Pursuant to Section 7(c) of FESA, CALFED asked USFWS, NMFS, and DFG to provide information about any species listed or proposed for listing as threatened or endangered, including designated or proposed critical habitats under FESA and CESA, that may be present in the MSCS Focus Area (Figure 1-1). Additionally, CALFED, USFWS, NMFS, and DFG developed a list of special-status species known to occur or with the potential to occur within the Focus Area. This list did not include species affected only indirectly by CALFED within the service areas and watershed planning areas; these species will require additional analysis (see Chapter 4, "Effects of CALFED Actions and Conservation Measures").

Special-status species include those that fit into at least one of the following categories:

- listed as threatened or endangered under FESA;
- proposed for listing under FESA;
- candidates for listing under FESA;
- listed as threatened or endangered under CESA;
- candidates for listing under CESA;
- plants listed as rare under the California Native Plant Protection Act;
- fully protected species or specified birds under various sections of the California Fish and
 Game Code;
- California species of special concern (CSC);
- plants included on California Native Plant Society (CNPS) List 1A, 1B, 2, or 3; or
- other native species of concern to CALFED.

More than 400 special-status fish, wildlife, and plant species were identified as known or with the potential to occur within the MSCS Focus Area and at potential reservoir sites. CALFED generated this preliminary species list from electronic databases of known occurrences of special-status species (DFG's Natural Diversity Data Base and CNPS's Inventory of Rare and Endangered Plants), and wildlife biologists and botanists looked for potentially occurring species based on known range and habitat requirements. CALFED worked with teams of biologists with specific expertise to refine the list to 244 species that are evaluated in the MSCS. Species evaluated in the MSCS meet at least one of the following criteria:

- The species is federally listed as threatened or endangered or State listed as rare, threatened, endangered, or fully protected.
- The species could become federally or State listed during the term of CALFED implementation (at least 30 years), and CALFED actions could adversely affect it.
- CALFED actions could affect important habitat or a substantial portion of the species' range.

Under the first criterion, all federal and California listed species known or with the potential to occur in the Focus Area are included for evaluation.

Under the second criterion, species with the potential to become federally or State listed during CALFED implementation are:

- species proposed for listing under FESA;
- candidates for listing under FESA;
- candidates for listing under CESA; or
- California species of special concern, specified birds, CNPS List 1 and List 2 species, and other species of concern, if:
 - CALFED actions could affect a substantial portion of the species' range or important habitat, or
 - the species is especially rare or its distribution is limited.

Under the third criterion, important habitat identified included breeding and roosting habitat for various species evaluated in the MSCS. Table 2-2 lists species from the Focus Area and potential reservoir sites that are evaluated in the MSCS. The MSCS technical report "Species Accounts for Multi-Species Conservation Strategy Evaluated Species" provides ecological and status information on evaluated species.

Attachment A, "Species Considered for Inclusion in the Multi-Species Conservation Strategy but Not Evaluated", identifies species that did not meet the criteria for evaluation in the MSCS. Although these species are not explicitly evaluated, they could benefit from implementation of ERP actions and MSCS conservation measures that have a positive effect on their habitats.

2.4 COVERED SPECIES

Based on the MSCS, the ERP, and other relevant parts of CALFED (e.g., CMARP, the WMS, and the EWA), USFWS, NMFS, and DFG will each identify a list of "covered species". Each agency's list of covered species will differ according to its jurisdiction and applicable statutory standards. Federally covered species are federally listed and proposed species identified by USFWS and NMFS in the programmatic biological opinions. State-covered species are species identified by DFG in the programmatic NCCP determination.

USFWS and NMFS share responsibility for administering FESA. Under Reorganization Plan No. 4 of 1970, NMFS has primary responsibility for implementing FESA with respect to marine fishes and mammals, including migratory or anadromous fish species such as salmon and steelhead; USFWS has primary responsibility for virtually all other species. Accordingly, under the applicable FESA standard, USFWS will identify any federally listed or proposed evaluated species (other than anadromous fish species) as a federally covered species if CALFED is not likely to jeopardize the species' continued existence or to result in the destruction or adverse modification of habitat critical to the species. Using the same standard, NMFS will identify federally covered species among the federally listed or proposed evaluated species that are anadromous fish species.

In accordance with its broad jurisdiction over plants, fish, and wildlife within California, and under the standards in NCCPA, DFG will identify as a State-covered species any evaluated species that will be "adequately conserved" under the MSCS. If the MSCS and ERP will not significantly increase or enhance the habitat of an evaluated species, that species is likely to be excluded from DFG's State-covered species list. DFG may include CESA listed and unlisted species as State-covered.

USFWS and NMFS will identify federally covered species from the MSCS evaluated species list in their respective programmatic biological options. DFG will identify State-covered species from the MSCS evaluated species list in its programmatic NCCP determination. Species for which USFWS, NMFS, and DFG determine CALFED will not achieve applicable FESA and NCCPA standards will not be included as State-covered or federally covered species.

Covered species will include species for which take authorization could be issued for actions that follow the MSCS compliance process (see Chapter 6, "Compliance with the Federal and California Endangered Species Acts and Natural Community Conservation Planning Act"). They may include other species for which take cannot be issued. For example, direct mortality of extremely rare species will not be authorized. In addition, incidental take will not be authorized where prohibited by certain laws other than FESA or CESA, such as the State fully protected species statutes (California Fish and Game Code Sections 3511, 4700, 5050, and 5515).

2.5 CRITICAL HABITAT

FESA designated critical habitat for several listed evaluated species is present in the MSCS Focus Area (Table 2-2). All or portions of the Delta are designated critical habitat for several listed fish species (e.g., delta smelt). Portions of the Sacramento River and its tributaries are also designated as critical habitat for several anadromous fishes (e.g., the Sacramento River winter-run chinook salmon). Pursuant to FESA requirements, the MSCS also analyzes potential effects of CALFED on FESA designated critical habitats located in the Focus Area.

2.6 EXISTING BASELINE CONDITIONS

The analysis of potential CALFED effects on NCCP communities and evaluated species presented in Chapter 4 was conducted by comparing habitat conditions and species populations under existing conditions to expected future-with-project conditions. The existing conditions baseline for NCCP communities used to conduct the analysis is described in Chapters 6.1 and 6.2 of the Programmatic EIS/EIR, "Fisheries and Aquatic Ecosystems" and "Vegetation and Wildlife". The existing baseline conditions for evaluated species are described in individual species accounts in the MSCS technical report "Species Accounts for Multi-Species Conservation Strategy Evaluated Species".

Multi-Species Conservation Strategy User Guide

This table presents the species and FESA designated critical habitats evaluated in the Multi-Species Conservation Strategy (MSCS) and describes the criteria used to select the evaluated species. The table also identifies each species' MSCS goal and the likelihood that CALFED may affect that species. Species goals are discussed in Chapter 3, and Chapter 4 discusses the determination of the potential for CALFED effects on species.

Criteria for Developing the Preliminary Species List

The preliminary species list includes special-status species known to occur or with potential to occur in the MSCS Focus Area (i.e., the Ecosystem Restoration Program's [ERP's] 14 ecological management zones and 12 potential reservoir sites). The preliminary list was developed using the criteria described below.

Special-status species are species having some form of endangerment or concern status. These species are:

- listed as threatened or endangered under the federal Endangered Species Act (FESA);
- listed as threatened or endangered under the California Endangered Species Act (CESA);
- listed as rare under the California Native Plant Protection Act;
- proposed for federal listing under the FESA;
- California candidates under CESA;
- · federal candidates under FESA:
- · California fully protected species or specified birds;
- California species of special concern (CSC);
- California Native Plant Society (CNPS) List 1A, 1B, 2, or 3; or
- · other species of concern to CALFED.

The determination that a species has the potential to occur in the MSCS focus area was based on the species' known range and the presence of suitable habitat within the MSCS focus area.

Species Evaluated in the Multi-Species Conservation Strategy

The preliminary species list was reduced to the list of species to be evaluated in the MSCS by application of the following criteria:

- the species is federally or California-listed as rare, threatened, or endangered, or is a California fully protected species; or
- the species could become federally or California-listed as threatened or endangered during the term of CALFED implementation, and CALFED actions could affect the species, or
- CALFED actions could affect a substantial portion of the species' range or important habitat, and CALFED actions could affect these species.

Species considered to have the potential to become federally or California-listed as threatened or endangered during the term of CALFED implementation are those that are:

- · proposed for federal listing, or
- California candidates, or
- federal candidates, or
- · CSC (each species considered individually for inclusion—see Decision Criteria), or
- specified birds (each species considered individually for inclusion—see Decision Criteria), or
- CNPS List 1, 2, and 3 (each species considered individually for inclusion—see Decision Criteria), or
- other species of concern (each species considered individually for inclusion—see Decision Criteria).

CSC, specified birds, CNPS Lists 1–3, and other species of concern are included if CALFED actions could affect a substantial portion of the species' range or important habitat or if the species is rare or its distribution is limited.

				Status 2		Potentia	l Effects of C Actions ³	ALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
Federally Listed	l as Endangered or Threatened							
Mammals							_	
m	Giant kangaroo rat	Dipodomys ingens	Е	CE	-	X		L
r	San Joaquin Valley woodrat	Neotoma fuscipes riparia	Е	CSC	-	X		L

				Status ²		Potentia	Effects of C Actions ³	ALFED
Species Goals ¹	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
Federally Listed	as Endangered or Threatened (contin	nued)						
Mammals (continued	1)							
r	Salt marsh harvest mouse	Reithrodontomys raviventris	E	CE/FP	-	X		L
r	Riparian brush rabbit	Sylvilagus bachmani riparius	E	CE	· -	X		L
m	San Joaquin kit fox	Vulpes macrotis mutica	Е	CT	-	X		L
Birds								
m	Aleutian Canada goose	Branta canadensis leucopareia	T	-	-	X		L
m	Bald eagle	Haliaeetus leucocephalus	T/PR	CE/FP	-	X		L
m	California brown pelican	Pelecanus occidentalis californicus	E	CE/FP	-		X1	L
r	California clapper rail	Rallus longirostris obsoletus	E	CE/FP	-	X		L
m	California condor	Gymnogyps californianus	Е	CE/FP	-		X1	L
m	California least tern	Sterna antillarum browni	E	CE/FP	-	X		L
r	Least Bell's vireo	Vireo bellii pusillus	E	CE	-	X		L
m	Northern spotted owl	Strix occidentalis caurina	T	-	-		X2	L
	Northern spotted owl critical habitat	Strix occidentalis caurina critical habitat						
m	Western snowy plover	Charadrius alexandrinus nivosus	T	CSC	-	X		L
Reptiles								
m	Alameda whipsnake	Masticophis lateralis euryxanthus	T	CT	-	X		L
m	Blunt-nosed leopard lizard	Gambelia sila	Е	CE/FP	-	X		L
r	Giant garter snake	Thamnophis gigas	T	CT	_	X		L

				Status ²		Potentia	Effects of C	CALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria 4
Federally Listed	as Endangered or Threatened (conti	nued)						
Amphibians								
m	California red-legged frog	Rana aurora draytonii	T	CSC	-	X		L
Fish								
m	Central California Coast steelhead evolutionarily significant unit (ESU)	Oncorhynchus mykiss	T	-	-	X		L
	Central California Coast steelhead ESU critical habitat	Oncorhynchus mykiss critical habitat						
R	Central Valley steelhead ESU	Oncorhynchus mykiss (cv)	T	-	-	X		L
	Central Valley steelhead ESU critical habitat	Oncorhynchus mykiss (cv) critical habitat						
R	Central Valley spring-run chinook salmon ESU	Oncorhynchus tshawytscha (sr)	T	CT	-	X		L
	Central Valley spring-run chinook salmon ESU critical habitat	Oncorhynchus tshawytscha (sr) critical habitat						
R	Delta smelt	Hypomesus transpacificus	T	CT	-	X		L
	Delta smelt critical habitat	Hypomesus transpacificus critical habitat						
R	Sacramento splittail	Pogonichthys macrolepidotus	T	CSC	-	X		L
m	Tidewater goby	Eucyclogobius newberryi	Е	CSC	-		X2	L
R	Sacramento River winter-run chinook salmon ESU	Oncorhynchus tshawytscha (wt)	E	CE	-	X		L
	Sacramento River winter-run chinook salmon ESU critical habitat	Oncorhynchus tshawytscha (wr) critical habitat						

			-	Status ²		Potentia	Effects of C Actions ³	CALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
Federally Listed	as Endangered or Threatened (cont	inued)						
Invertebrates			<u>-</u>	_				
m	California freshwater shrimp	Syncaris pacifica	Е	CE	-	X		L
m	Callippe silverspot	Speyeria callippe callippe	E	-	· -		X2	L
m	Conservancy fairy shrimp	Branchinecta conservatio	E	-	-	X		L
r	Delta green ground beetle	Elaphrus viridis	T	-	-	X		L
	Delta green ground beetle critical habitat	Elaphrus viridis critical habitat						
R	Lange's metalmark	Apodemia mormo langei	E	-	-	X		L
m	Longhorn fairy shrimp	Branchinecta longiantenna	Е	-	-		X2	L
R	Valley elderberry longhorn beetle	Desmocerus californicus dimorphus	T	-	-	X		L
	Valley elderberry longhorn beetle critical habitat	Desmocerus californicus dimorphus critical habitat						
m	Vernal pool fairy shrimp	Branchinecta lynchi	T	-	-	X		L
m	Vernal pool tadpole shrimp	Lepidurus packardi	Е	-	-	X		L
Plants								
m	Sonoma alopecurus	Alopecurus aequalis var. sonomensis	E	-	1B		X2	L
m	Large-flowered fiddleneck	Amsinckia grandiflora	E	CE	1B	X		L
	Large-flowered fiddleneck critical habitat	Amsinckia grandiflora critical habitat						
m	Ione manzanita	Arctostaphylos myrtifolia	T	-	1B		X2	L
m	Pallid manzanita	Arctostaphylos pallida	T	CE	1B		X2	L

								1 ago 5 of 1
				Status ²	2	Potential	Effects of C	ALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
Federally Listed	as Endangered or Threatened (co	ntinued)						
Plants (continued)								
m	Clara Hunt's milkvetch	Astragalus clarianus	Е	CT	1B		X2	L
m	Sonoma sunshine	Blennosperma bakeri	E	CE	1B		X2	L
m	Chinese Camp brodiaea	Brodiaea pallida	T	CE	1B	X		L
m	Tiburon Mariposa lily	Calochortus tiburonensis	T	CT	1B		X2	L
m	Stebbins' morning-glory	Calystegia stebbinsii	E	CE	1B		X2	L
m	San Benito evening-primrose	Camissonia benitensis	T	-	1B		X2	L
m	White sedge	Carex albida	E	CE	1B		X2	L
m	Tiburon Indian paintbrush	Castilleja affinis ssp. neglecta	E	CT	1B		X2	L
m	Succulent owl's-clover	Castilleja campestris ssp. succulenta	T	CE	1B	X		L
m	Pine Hill ceanothus	Ceanothus roderickii	E	R	1B		X2	L
m	Hoover's spurge	Chamaesyce hooveri	T	-	1B	X		L
m	Sonoma spineflower	Chorizanthe valida	E	CE	1B		X2	L
R	Suisun thistle	Cirsium hydrophilum var. hydrophilum	E	-	1B	X		L
R	Soft bird's-beak	Cordylanthus mollis ssp. mollis	E	R	1B	X		L
m	Palmate-bracted bird's-beak	Cordylanthus palmatus	E	CE	1B	X		L
m	Baker's larkspur	Delphinium bakeri	E	R	1B		X2	L
m	Yellow larkspur	Delphinium luteum	Е	R	1B		X2	L
m	Hoover's eriastrum	Eriastrum hooveri	T	-	-	X		L
m	Ione buckwheat	Eriogonum apricum vat. apricum	E	CE	1B		X2	L
m	Loch Lomond button-celery	Eryngium constancei	E	CE	1B		X2	L

				Status ²		Potentia	l Effects of C Actions ³	ALFED
Species Goals ¹	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
Federally Listed	as Endangered or Threatened (cont	tinued)						
Plants (continued)						-		
R	Contra Costa wallflower	Erysimum capitatum ssp. angustatum	E	CE	1B	X		L
	Contra Costa wallflower critical habitat	Erysimum capitatum ssp. angustatum critical habitat						
m	Pine Hill flannelbush	Fremontodendron decumbens	E	R	1B		X2	L
m	El Dorado bedstraw	Galium californicum ssp. sierrae	E	R	1B		X2	L
m	Marin western flax	Hesperolinon congestum	T	CT	1B		X2	L
m	Contra Costa goldfields	Lasthenia conjugens	E	-	1B	X		L
m	San Joaquin woolythreads	Lembertia congdonii	E	-	1B	X		L
m	Pitkin Marsh lily	Lilium pardalinum ssp. pitkinense	Е	CE	1B		X2	L
m	Butte County meadowfoam	Limnanthes floccosa ssp. californica	E	CE	1B		X2	L
m	Sebastopol meadowfoam	Limnanthes vinculans	E	CE	1B		X2	L
m	Few-flowered navarretia	Navarretia leucocephala ssp. pauciflora	E	CT	1B		X2	L
m	Many-flowered navarretia	Navarretia leucocephala ssp. plieantha	E	E	1B		X2	L
m	Colusa grass	Neostapfia colusana	T	CE	1B	X		L
R	Antioch Dunes evening-primrose	Oenothera deltoides ssp. howellii	Е	CE	1B	X		L
	Antioch Dunes evening-primrose critical habitat	Oenothera deltoides ssp. howellii critical habitat						
m	San Joaquin Valley orcutt grass	Orcuttia inaequalis	T	CE	1B	X		L
m	Hairy orcutt grass	Orcuttia pilosa	E	CE	1B	X		L
m	Slender orcutt grass	Orcuttia tenuis	T	CE	1B	X		L

				Status ²		Potential	Effects of C Actions ³	ALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
Federally Listed	as Endangered or Threatened (conti	nued)						
Plants (continued)								
m	Sacramento orcutt grass	Orcuttia viscida	E	CE	1B	X		L
m	White-rayed pentachaeta	Pentachaeta bellidiflora	E	CE	1B		X2	L
m	Calistoga popcornflower	Plagiobothrys strictus	E	CT	1B		X2	L
m	Napa blue grass	Poa napensis	E	CE	1B		X2	L
m	Hartweg's golden sunburst	Pseudobahia bahiifolia	E	CE	1B	X		L
m	San Joaquin adobe sunburst	Pseudobahia peirsonii	T	CE	1B		X2	L
m	Layne's ragwort	Senecio layneae	T	R	1B	X		L
m	Kenwood Marsh checkerbloom	Sidalcea oregana ssp. valida	E	CE	1B		X2	L
m	Tiburon jewelflower	Streptanthus niger	Е	CE	1B		X2	L
m	California seablite	Suaeda californica	Е	-	1B	X		L
m	Showy Indian clover	Trifolium amoenum	Е	-	1B		X2	L
m	Greene's tuctoria	Tuctoria greenei	Е	R	1B	X		L
r	Crampton's tuctoria	Tuctoria mucronata	E	CE	1B	X		L
m	California vervain	Verbena californica	Т	CT	1B		X2	L
California Listed	d as Endangered, Threatened, Rare,	or Fully Protected and Not Federal	ly Listed					
Mammals								
m	California wolverine	Gulo gulo luteus	-	CT/FP	SC		X2	L
m	Nelson's antelope ground squirrel	Ammospermophilus nelsoni	-	CT	SC	X		L
m	Ringtail	Bassariscus astutus	-	FP	-	X		L

		Table 2-2. Continued	1					Page 8 of 1
· · · · · · · · · · · · · · · · · · ·				Status ²		Potentia	l Effects of C Actions ³	ALFED
Species Goals ¹	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
California Listed	l as Endangered, Threatened, Rar	e, or Fully Protected and Not Federally L	isted (contin	ued)				
Birds								
m	American peregrine falcon	Falco peregrinus anatum	-	CE/FP	-	X		L
. r	Bank swallow	Riparia riparia	-	CT		X		L
r	California black rail	Laterallus jamaicensis coturniculus	-	CT/FP	SC	X		L
m	Golden eagle	Aquila chrysaetos	PR	CSC/FP	-		X1	L
r	Greater sandhill crane	Grus canadensis tabida	-	CT/FP	-	X		L
r	Little willow flycatcher	Empidonax traillii brewsteri	-	-	SC	X		L
r	Swainson's hawk	Buteo swainsoni	-	CT	-	X		L
r	Western yellow-billed cuckoo	Coccyzus americanus occidentalis	-	CE	-	X		L
m	White-tailed kite	Elanus leucurus	-	FP	-	X		L
Amphibians								
m	Limestone salamander	Hydromantes brunus	-	CT/FP	SC		X2	L
m	Shasta salamander	Hydromantes shastae	-	CT	SC	X		L
Fish								
m	Rough sculpin	Cottus Asperrimus	-	CT/FP	SC	X		L
Plants								
m	Baker's manzanita	Arctostaphylos bakeri ssp. bakeri	-	R	1B/SC		X2	L
m	Indian Valley brodiaea	Brodiaea coronaria ssp. rosea	-	CE	1B	X		L
m	Tree-anenome	Carpenteria californica	-	CT	1B/SC	X		L
m	Mason's ceanothus	Ceanothus masonii	-	R	1B/SC		X2	L
m	Mt. Diablo bird's-beak	Cordylanthus nidularius	-	R	1B/SC		X2	L

								Page 9 of 1
				Status 2		Potentia	l Effects of C Actions ³	CALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria 4
California Listed	l as Endangered, Threatened, Rare	, or Fully Protected and Not Federally L	isted (continu	ied)				
Plants (continued)								
m	Irish Hill buckwheat	Eriogonum apricum var. prostratum	-	CE	1B		X2	L
r	Delta coyote-thistle	Eryngium racemosum	-	CE	1B/SC	X		L
m	Boggs Lake hedge-hyssop	Gratiola heterosepala	-	CE	1B	X		L
m	Santa Cruz tarplant	Holocarpha macradenia	PT	CE	1B		X2	L
R	Mason's lilaeopsis	Lilaeopsis masonii	-	R	1B/SC	X		L
m	North Coast semaphore grass	Pleuropogon hooverianus	-	R	1B/SC		X2	L
m	Rock sanicle	Sanicula saxatilis	-	R	1B/SC	X		L
m	Marin checkerbloom	Sidalcea hickmanii ssp. viridis		-	1B/SC		X2	L
Federally Propos	sed and Not California Listed							
Birds								
m	Mountain plover	Charadrius montanu	PT	CSC	-	X		P
Federal Candida	ite and Not California Listed							
Amphibian								
m	California tiger salamander	Ambystoma californiense	С	CSC	-	X		P
Fish								
R	Central Valley fall-/late-fall-run chinook salmon ESU	Oncorhynchus tshawytscha (fr)	С	CSC	-	X		P
m	McCloud River redband trout	Oncorhynchus mykiss ssp 2	C	CSC	-	X		P

				Status ²		Potentia	Effects of C	ALFED
Species Goals ¹	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
California Specie	es of Special Concern or CNPS List 1	or 2	···					
Mammals								
m	Greater western mastiff-bat	Eumops perotis californicus	-	CSC	SC	X		Α
r	San Pablo California vole	Microtus californicus sanpabloensis	-	CSC	· -	X		Α
R	Suisun ornate shrew	Sorex ornatus sinuosus	-	CSC	SC	X		В
Birds								
m	Black tern	Chlidonias niger	-	CSC	SC	X		В
m	California gull	Larus californicus	-	CSC	-	X		В
r	California yellow warbler	Dendroica petechia brewsteri	-	CSC	-	X		Α
m	Cooper's hawk	Accipiter cooperii	-	CSC	-	X		Α
m	Double-crested cormorant (rookery)	Phalacrocorax auritus	-	CSC	-	X		Α
m	Long-billed curlew	Numenius americanus	-	CSC	-	X		A
m	Long-eared owl	Asio otus	-	CSC	-	X		В
m	Northern harrier	Circus cyaneus	-	CSC	-	X		A
m	Osprey	Pandion haliaetus	-	CSC/SB	-	X		A
r	Saltmarsh common yellowthroat	Geothlypis trichas sinuosa	-	CSC	SC	X		Α
R	San Pablo song sparrow	Melospiza melodia samuelis	-	CSC	SC	X		Α
m	Short-eared owl	Asio flammeus	-	CSC	-	X		В
R	Suisun song sparrow	Melospiza melodia maxillaris	-	CSC	SC	X		Α
m	Tricolored blackbird	Agelaius tricolor	-	CSC	SC	X		Α
m	Western burrowing owl	Athene cunicularia hypugea	-	CSC	SC	X		Α

						<u> </u>		Page 11 of 18
				Status 2		Potentia	l Effects of C Actions ³	CALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
California Speci	es of Special Concern or CNPS L	ist 1 or 2 (continued)						
Birds (continued)								
m	Western least bittern	Ixobrychus axilis	-	CSC	SC	X		Α
m	White-faced ibis	Plegadis chihi	-	CSC	SC	X		Α
m	Yellow-breasted chat	Icteria virens	-	CSC	-	X		Α
Reptiles								
m	San Joaquin whipsnake	Masticophis flagellum ruddocki	-	CSC	SC	X		В
m	Western pond turtle	Clemmys marmorata	-	CSC	SC	X		Α
Amphibians								
m	Foothill yellow-legged frog	Rana boylii	-	CSC	SC	X		A
m	Western spadefoot	Scaphiopus hammondii	-	CSC	SC	X		A
Fish								
R	Green sturgeon	Acipenser medirostris	-	CSC	-	X		В
m	Hardhead	Mylopharodon conocephalus	-	CSC	-	X		В
R	Longfin smelt	Spirinchus thaleichthys	-	CSC	-	X		В
r	Sacramento perch	Archoplites interruptus	-	CSC	SC	X		В
Invertebrates								
m	Monarch butterfly (roost)	Danaus plexippus	-	-	-	X		В
Plants								
m	Sharsmith's onion	Allium sharsmithae	-	-	1B	X		В

			Status ²			Potential Effects of CALFE. Actions 3		
Species Goals ¹	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
California Specie	es of Special Concern or CNPS Li	ist 1 or 2 (continued)						
Plants (continued)								
m	Rawhide Hill onion	Allium tuolumnense	-	-	1B	X		В
m	Dimorphic snapdragon	Antirrhinum subcordatum	-	-	· 1B	X		В
m	Mt. Diablo manzanita	Arctostaphylos auriculata	-	-	1B	X		В
m	Klamath manzanita	Arctostaphylos klamathensis	-	-	1B/SC	X		В
m	Contra Costa manzanita	Arctostaphylos manzanita ssp. laevigata	-	-	1B	X		В
R	Suisun Marsh aster	Aster lentus	-	-	1B/SC	X		A
m	Big Bear Valley woollypod	Astragalus leucolobus	-	-	1B/SC	X		В
m	Jepson's milkvetch	Astragalus rattanii var. jepsonianus	-	-	1B	X		В
m	Ferris' milkvetch	Astragalus tener var. ferrisiae	-	-	1B/SC	X		Α
r	Alkali milkvetch	Astragalus tener var. tener	-	-	1B/SC	X		Α
m	Heartscale	Atriplex cordulata	-	-	1B/SC	X		Α
m	Brittlescale	Atriplex depressa	-	-	1B/SC	X		A
m	San Joaquin spearscale	Atriplex joaquiniana	-	_	1B/SC	X		A
m	Lesser saltscale	Atriplex minuscula	-	-	1B/SC	X		Α
m	Vernal pool smallscale	Atriplex persistens	-	-	1B	X		В
m	Lost Hills crownscale	Atriplex vallicola	-	_	1B/SC	X		A
m	Big tarplant	Blepharizonia plumosa ssp. plumosa	-	-	1B	X		В
m	Mt. Diablo fairy lantern	Calochortus pulchellus	-	-	1B	X		В
m	Sharsmith's harebell	Campanula sharsmithiae	-	-	1B/SC	X		В

		Status ²				Potentia	Effects of C Actions ³	ALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
California Specie	es of Special Concern or CNPS List 1	or 2 (continued)						
Plants (continued)								
r	Bristly sedge	Carex comosa	-	-	2	X		В
m	Dwarf soaproot	Chlorogalum pomeridianum var. minus	-	-	1B	X		В
m	Slough thistle	Cirsium crassicaule	-	-	1B/SC	X		Α
m	Mariposa clarkia	Clarkia biloba ssp. australis	-	-	1B	X		В
m	Shasta clarkia	Clarkia borealis spp. arida	-	-	1B/SC	X		В
m	Beaked clarkia	Clarkia rostrata	-	-	1B/SC	X		В
r	Point Reyes bird's-beak	Cordylanthus maritimus ssp. palustris	-	-	1B/SC	X		A
m	Hispid bird's-beak	Cordylanthus mollis ssp. hispidus	-	-	1B/SC	X		A
m	Mt. Hamilton coreopsis	Coreopsis hamiltonii	-	-	1B/SC	X		В
m	Silky cryptantha	Cryptantha crinita	-	-	1B/SC	X		В
m	Hospital Canyon larkspur	Delphinium californicum ssp. interius	-	-	1B/SC	X		В
m .	Recurved larkspur	Delphinium recurvatum	-	-	1B/SC	X		В
m	Four-angled spikerush	Eleocharis quadrangulata	-	-	2	X		Α
m	Brandegee's eriastrum	Eriastrum brandegeae	-		1B/SC	X		В
m	Ben Lomond buckwheat	Eriogonum nudum var. decurrens	-	-	1B	X		В
m	Spiny-sepaled button-celery	Eryngium spinosepalum	-	-	1B/SC	X		Α
m	Diamond-petaled California poppy	Eschscholzia rhombipetala	-	-	1A/SC	X		В
m	Adobe-lily	Fritillaria pluriflora	-	-	1B/SC	X		В
m	Diablo helianthella	Helianthella castanea	-	-	1B/SC	X		В

			Status ²			Potentia	l Effects of C Actions ³	CALFED
Species Goals ¹	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
California Specie	es of Special Concern or CNPS List	1 or 2 (continued)	·· -	••••				
Plants (continued)								
m	Hall's tarplant	Hemizonia halliana	-	-	1B	X		В
m	Congdon's tarplant	Hemizonia parryi ssp. congdonii	-	-	1B/SC	X		Α
m	Brewer's western flax	Hesperolinon breweri	-	-	1B/SC	X		В
m	Drymaria-like western flax	Hesperolinon drymarioides	-	-	1B/SC	X		В
m	Napa western flax	Hesperolinon serpentinum	-	-	1B	X		В
m	Tehama County western flax	Hesperolinon tehamense	-	-	1B/SC	X		В
m	Rose-mallow	Hibiscus lasiocarpus	-	-	2	X		Α
m	Parry's horkelia	Horkelia parryi	-	-	1B/SC	X		В
m	Carquinez goldenbush	Isocoma arguta	-	-	1B/SC	X		Α
ŗ	Northern California black walnut (native stands)	Juglans californica vat. hindsii		-	1B/SC	X		A
m	Ahart's dwarf rush	Juncus leiospermus var. ahartii	-	-	1B/SC	X		В
r	Delta tule pea	Lathyrus jepsonii var. jepsonii	-	-	1B/SC	X		Α
m	Pale-yellow layia	Layia heterotricha			1B/SC	X		В
m	Legenere	Legenere limosa	-	-	1B/SC	X		В
m	Panoche peppergrass	Lepidium jaredii ssp. album	-	-	1B/SC	X		Α
m	Heckard's peppergrass	Lepidium latipes var. heckardii	-	-	1B	X		В
m	Saw-toothed lewisia	Lewisia serrata	-	_	1B/SC	X		В
m	Bellinger's meadowfoam	Limnanthes floccosa ssp. bellingeriana	_	-	1B/SC	X		В

				Status 2			Actions 3	CALFED
Species Goals 1	Common Name	Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
California Specie	es of Special Concern or CNPS Li	st 1 or 2 (continued)						
Plants (continued)								
r	Delta mudwort	Limosella subulata	-	-	2	X		Α
m	Mt. Tedoc linanthus	Linanthus nuttallii ssp. howellii	-	-	1B/SC	X		В
m	Madera linanthus	Linanthus serrulatus	-	-	1B	X		В
m	Congdon's lomatium	Lomatium congdonii	-	-	1B/SC	X		В
m	Red-flowered lotus	Lotus rubriflorus	-	-	1B/SC	X		В
m	Shaggyhair lupine	Lupinus spectabilis	-	-	1B/SC	X		В
m	Showy madia	Madia radiata	-	-	1B	X		В
m	Hall's bush mallow	Malacothamnus hallii	-	-	1B	X		В
m	Pincushion navarretia	Navarretia myersii	-	-	1B	X		В
m	Shasta snow-wreath	Neviusia cliftonii	-	-	lВ	X		Α
m	Ahart's paronychia	Paronychia ahartii	-	-	1B/SC	X		В
m	Thread-leaved beardtongue	Penstemon filiformis	-	-	1B/SC	X		В
m	Merced phacelia	Phacelia ciliata var. opaca	-	-	1B/SC	X		В
m	Mt. Diablo phacelia	Phacelia phacelioides	-	-	1B/SC	X		В
m	Eel-grass pondweed	Potamogeton zosteriformis	-	-	2	X		Α
m	California beaked-rush	Rhynchospora californica	-	-	1B/SC	X		Α
m	Sanford's arrowhead	Sagittaria sanfordii	-	-	1B/SC	X		A
m	Marsh skullcap	Scutellaria galericulata	-	_	2	X		В
m	Mad-dog skullcap	Scutellaria lateriflora	-	-	2	X		A
m	Red Hills ragwort	Senecio clevelandii var. heterophyllus	-	-	1B	X		В

								Page 16 of 1	
		Status ²				Potentia	tential Effects of CALF Actions 3		
Species Goals ¹	Common Name	Common Name Scientific Name	Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴	
California Speci	es of Special Concern or CNPS L	ist 1 or 2 (continued)							
Plants (continued)				<u> </u>		_			
m	Marsh checkerbloom	Sidalcea oregana ssp. hydrophila	-	-	1B/SC	X		A	
m	English Peak greenbriar	Smilax jamesii	-	-	1B	X		Α	
m	Most beautiful jewel-flower	Streptanthus albidus ssp. peramoensus	-	-	1B	X		В	
m	Mt. Hamilton jewelflower	Streptanthus callistus	-	-	1B/SC	X		В	
m	Mt. Diablo jewelflower	Streptanthus hispidus	-	-	1B/SC	X		В	
m	Arburua Ranch jewelflower	Streptanthus insignis ssp. lyonii	-	-	1B/SC	X		В	
Other Species of	Concern or CNPS List 3			<u>_</u>					
Mammals									
m	Merced kangaroo rat	Dipodomys heermanni dixoni	-	-	SC	X		Α	
Birds									
m	Black-crowned night heron (rookery)	Nycticorax nycticorax	-	-	SC	X		A	
m	Grasshopper sparrow	Ammodramus savannarum	-	-	SC	X		В	
m	Great blue heron (rookery)	Ardea herodias	-	-	SC	X		Α	
m	Great egret (rookery)	Casmerodius albus	-	SB	SC	X		Α	
m	Snowy egret (rookery)	Egretta thula	-	SB	SC	X		Α	
Invertebrates									
m	Mid-valley fairy shrimp	Brachinecta n. sp. "mid-valley"	-	-	SC	X		Α	
m	Shasta sideband	Monadenia troglodytes	-	-	SC	X		В	

		Scientific Name	Status ²			Potential Effects of CALFED Actions ³		
Species Goals ¹	ecies Goals ¹ Common Name		Federal	State	Other	May be Affected	Not Likely to be Affected	Decision Criteria ⁴
Other Species of	Concern or CNPS List 3 (continue	ed)						
Plants								
m	Henderson's bent grass	Agrostis hendersonii	-	-	3/SC	X		Α
m	San Antonio Hills monardella	Monardella antonina ssp. antonina	-	-	. 3	X		Α
m	Marin knotweed	Polygonum marinense		-	3/SC	X		Α

Notes:

R = Recovery. Recover species' populations within the MSCS focus area to levels that ensure the species' long-term survival in nature.

r = Contribute to recovery. Implement some of the actions deemed necessary to recover species' populations within the MSCS focus area.

m = Maintain. Ensure that any adverse effects on the species that could be associated with implementation of CALFED actions will be fully offset through implementation of actions beneficial to the species.

² Status:

Federal

E = Listed as endangered under FESA.

T = Listed as threatened under FESA.

PE = Proposed for listing as endangered under FESA.

PT = Proposed for listing as threatened under FESA.

C = Candidate for listing under FESA.

PR = Protected under the Bald and Golden Eagle Protection Act.

¹ Species Goals:

State

CE = Listed as endangered under CESA.

CT = Listed as threatened under CESA.

CCE = Candidate for listing as endangered under CESA.

CCT = Candidate for listing as threatened under CESA.

R = Listed as rare under California Native Plant Protection Act.

CSC = California species of special concern.

FP = Fully protected under California Fish and Game Code. SB = Specified birds under California Fish and Game Code.

Other

1A = CNPS List 1A.

1B = CNPS List 1B.

= CNPS List 2.

3 = CNPS List 3.

SC = Other species of concern identified by CALFED.

Potential Effects of CALFED Actions on Evaluated Species:

May be Affected:

CALFED actions may result in take of federally or State-protected species: species that are associated with habitat types or occur at specific locations that may be adversely or beneficially affected by CALFED actions depending on where CALFED actions would be implemented, or species that are rare or transient in the MSCS focus area and may be affected by CALFED actions depending on when or where CALFED actions would be implemented.

Not Likely to be Affected:

- X1 = CALFED actions do not affect the species, because habitat is not limiting and the species is mobile.
- X2 = Species occurs in areas that would not be affected by CALFED actions.

⁴ Decision Criteria:

- A = Included because CALFED actions could affect a substantial portion of the species' range or important habitat.
- B = Included because of limited distribution or rarity of the species.
- L = Included because species is federally or State-listed as endangered, threatened, rare, or fully protected.
- P = Included because of the immediate potential to become federally or State-listed.